20/11/24	
	<u>LA8 - 7</u>
@)	Write a program that demonstrates handling of
	encolo tran un unha retance
	color called our father
	class called as son survey
	base class. In Fathers ours
	constructor which takes the sugar
	enception Wrong age when input
	les than zero. In son's class implement
	a constructor that uses both father's and
	son's age and throws enception if son's
	age is greater than or equal to father's age.
	class Negatine Age Exercox entends Exception {
	int a;
	public NegationAge Everor (int a) {
	thi.a = a;
8.5	}
	public String ToString () {
	return "Negatine Age: "+a; }
	class smalid Age Exercir entends Exception {
	int a, b;
	public Analid Age Everor (int a, int b) {
	thu. a = a;
	$\frac{2}{3}$
	public String to String () {
	return "Invalid age: "+ a + " is less than "+ b; }
	3



class Father { String name; Eather (String name, int age) [try { if (age <0) {

throw new Negative Age Everor (age); if (age co) E this name = name; this. age = age; cotch (Negatine Age Everor e) { this age = age Segstem. out- print In (e); 3 class Son entends Father { String sonname; ind sonage; Son (String sonname, int sonage, String fothername, int fotherage) { super (fathername, fatherage); This sonname = son if (son Age < 0) { throw new Negative Age Exceor (son Age); f (son Age > = fother age) {

throw new Imalid Age Everor (son Age, Father Age); of (son Age > = fother age) {

```
this. son Age = son Age;
 catch (Negatine Age Everor e) {
System. out- print In (e);
}
 catch (Imalidage Esser e) {
System. out. print In (e); }
class Exceptions {
 public static Void main (String E3 args) {
  Scanner SC = new Scanner ( system - in
 System. out. print In ("Enter son name");
 String name = sc. next ();
 System. out. print In (" Enter son age");
 int age = sc. next Int ();
System. out. print In ("Enter father name");
 String name = s(. nent ();
System. out. print In ("Enter father age");
int age = sc. nent Int ();
Son al = new Son (name, age, name, age);
Siegstem out. print In ("End of program");
```

Output: Enter son name Enter son age Enter father name Enter father age Smualid Age: 5 is less than 3 Enter son name Enter father name Enter father age Negative Age : - 4 Invalid Age: 5 is less than -4